

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/765,06/F

Source: 1FW16

Date Processed by STIC: 7/12/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/09/765,061F

TIME: 10:46:14

Input Set : A:\USSN09765061.txt

Output Set: N:\CRF4\07122005\I765061F.raw

3 <110> APPLICANT: Board of Regents of the University of Texas System  
 5 <120> TITLE OF INVENTION: MUTATIONS IN A NOVEL PHOTORECEPTOR-PINEAL GENE ON 17P CAUSE  
 LEBER

6 CONGENITAL AMAUROSIS (LCA4)  
 8 <130> FILE REFERENCE: 96606/16UTL  
 10 <140> CURRENT APPLICATION NUMBER: 09/765,061F  
 11 <141> CURRENT FILING DATE: 2001-01-17  
 13 <150> PRIOR APPLICATION NUMBER: 60/331362  
 14 <151> PRIOR FILING DATE: 2001-01-14  
 16 <160> NUMBER OF SEQ ID NOS: 83  
 18 <170> SOFTWARE: PatentIn version 3.3  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 6689  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Homo sapiens  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: gene  
 28 <222> LOCATION: (1)..(6689)  
 29 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor  
 interacting  
 30 protein-like 1  
 32 <220> FEATURE:  
 33 <221> NAME/KEY: misc\_feature  
 34 <222> LOCATION: (1897)..(1906)  
 35 <223> OTHER INFORMATION: n is a, c, g, or t  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: misc\_feature  
 39 <222> LOCATION: (3946)..(3946)  
 40 <223> OTHER INFORMATION: n is a, c, g, or t  
 42 <400> SEQUENCE: 1

43	ggcctcccaa	agtgtctgga	tacaggcgtg	agtcaccgcg	cctgggtcccc	tgtcttcttt	60
45	aagaaagctc	agcggacctt	tttccttctt	ggggtggaac	aaaaagccaa	atctagcaca	120
47	accctgggca	ggggcccaga	atcactggaa	gcaaagggtg	atgggatagg	aggcgaggct	180
49	gcctgtggac	cacaggcccg	gcccagatgg	ctctgatgag	aagccggggc	gcctaggtca	240
51	ccgcccccac	cgtctgacct	tcccccaact	cctcctggct	gggtaaatcc	cagagtctca	300
53	gccgcctaag	tgtcttcccc	ggaggtgaga	ttatctccgc	ctgtgctgga	cacctccctt	360
55	tctcctgcag	ccatggatgc	cgctctgctc	ctgaacgtgg	aaggggtcaa	gaaaaccatt	420
57	ctgcacgggg	gcacgggcga	gctcccaaac	ttcatcaccg	gatcccgagt	gagtggggcc	480
59	cctccggagc	agacagggtc	ccccacagca	gctttcaaca	ttccagggtg	gccccaggc	540
61	actgtaaaca	gctttcagct	gtgccaaaaa	aacagccagg	cagccccagc	gctgggcctc	600
63	cggggagctc	ccagcggtta	cccattcagg	gggcattttt	ggtactttgc	agattcaact	660
65	ttagcatggg	ctgaggggaa	gggcttttgg	gaattttctg	gggccctaaa	tgttgagtga	720
67	gaagaaagg	agtcaggagg	gtcttggtat	ttgtccccaa	atgtctgtta	ggcttccctg	780
69	gactgaagg	tgcgtctgtg	gctacagaat	tcgggctttg	gccaggcgag	gcggctcccc	840

71 cctgtaatcc cagcactttg ggaggccaag atgggcagat catgaggta agagttcgag 900

## RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/09/765,061F

TIME: 10:46:14

Input Set : A:\USSN09765061.txt

Output Set: N:\CRF4\07122005\I765061F.raw

```

73 accagcctga ccaacatgtg aaaccccatc tctactgaaa atacaaaaat tagccagatg 960
75 tgctgtggcg cctgtaatcc cagttcagat actcaggaga cttgaggcag gagaatcact 1020
77 tgagcccagg aggtggaggt tgcagtgagc cgagatcata ccaactgcact ccaacctggg 1080
79 caacagagtg agactctgtc tcagaaaaaa aaaaaaaaaa aagaactcgg gcttacttga 1140
81 ggaaggattt ctggacgcac agggctgtgg ggagtggagt ggggtctgta gggaggggtg 1200
83 ggtccctcct ccctgggggg tgcaggcagg gtggaggtgc tccaggggtc tgaggcatct 1260
85 gatggggtga actgagtgag ctgaccctgg ggacagccct ggggtgcggt ggcaaggggg 1320
87 tggcttctgc cgggccttga acagtgtgtc tagagcagag tgcaccgtct cggtgactag 1380
89 gtgatctttc atttccgcac catgaaatgt gatgaggagc ggacagtcac tgacgacagt 1440
91 cggcaggtgg gccagcccat gcacatcatc atcgaaaca tgttcaagct cgaggtctgg 1500
93 gagatcctgc ttacctccat gcgggtgcac gaggtggccg agttctggtg cgacaccatc 1560
95 gtaagtaggc cctgcgcgcc tgtctcctgg gactagtctt ttctgggctc acccaccgcg 1620
97 tttgcggggc tgctgtgttt cgggaaagct gggactcaag cgaagctttg caaagccagt 1680
99 cctgcaaaact tattccccac cgtgtgcatg tgaagatgga gggaacaagg gctggaaggg 1740
101 gtgacccatg ctgtggctgg ctgggtggga gcagggtat gaccagcagg agtgagctgg 1800
103 ccacttcac agtcctcaca tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 1860
W--> 105 tgtgtgtgtg agagagagag agagagagag agagagnnnn nnnnnntagc cttaggactt 1920
107 attgcagaga ccaacaccta acaatgtaat caggcagcca gtgcaggaca taaataagta 1980
109 aggcagtgtg ctttgggcca caaaagcacg ctcagcttgc tggaagccat ggggtgccag 2040
111 ctgggggctg ctgagtcagg gccaaagggg gcccctccct gcagtaagct ggttctgggg 2100
113 cctctccctc ccttgggtcca gctcttaate ccaacaggct caacagccat ctgcttgtct 2160
115 cttccataaa gaggcagaag gcatttcggg ctaatcccg cgggtggggc gggcaggggtg 2220
117 acctctgtct ctgtgtgtgt gacctggagg cagagctgaa ctgctgcata gatttccagc 2280
119 cccttcactt cacatgttgc atgtggggcc agtgctgggt catctcagaa gccgggtcaa 2340
121 ggagatgggt tctcaggagg cctagtggg gaaactgagg cccagcatac atacagcagg 2400
123 cctcgctgag gccgcacggc ggatcttccc agccctcctt catcccaagg gtggcaaaact 2460
125 cagctcccat gctggctgaa gctgtgatga gccagatcta tatctgcacc atctcattta 2520
127 atccctacag cagccctaata atcgaaacagg agcaaccag ggaactgagt ttcagagaag 2580
129 tgcagagacc tgggtccacc gctaacctgc agcactgcca ggacaccaa ggcactctct 2640
131 tggacctgg agtctgtct cttctactgc cccacactgc cttctctgcg agtcataggc 2700
133 tttgcagagg tcagggtttc cctggggcag agatgtgtta cagtggacca caagggccag 2760
135 aagaggcagc cggaggctaa cagcatatgg cctctggagc caggtttgaa tcctggctgc 2820
137 gtcatttccct agctgtgtga ccttaagcaa gttgcttgcg tctctgggct gtagtttccc 2880
139 catccgtaaa atgggataat agtgcctgcc ttgaattgtc ataaggattg aaggggctca 2940
141 taacagtgtg aagtgtttt cctggcacac agttaaccac agttagtatg agtggcatag 3000
143 tgaggagca ggattcctcc caggaggggc tctgagtgga ggcttttat ggcccaccta 3060
145 gctctgggca ggtagcctgg atgccatcca tccgtttatc cccacagcac acgggggtct 3120
147 accccatcct rtcccggagc ctgaggcaga tggcccaggg caaggacccc acagagtggc 3180
149 acgtgcacac gtgcgggctg gccaacatgt tcgcctacca cacgctgggc tacgaggacc 3240
151 tggacgagct gcagaaggag cctcagcctc tggctttgtg gatcgagctg ctgcaggtgg 3300
153 ggctggggtt ggcagggtcg gagggtgtg ccagcactgg agagggacag cgggcatcat 3360
155 gggcaccccc accccactgg ccaactggaca gtgcctgtt tctgtttaga taatacagaga 3420
157 gggttcataa gccatgggag aatacgaatt tgaaaaaaa gtcctctgat tttccacaa 3480
159 gaaaagtccct ttggtgctgg gcatggtggc ccacgcctgt aatcctagca ctttgggagg 3540
161 ccgagggggg tggatcacct gaggtcagga gttcgaagac cagcctggcc aacatggtaa 3600
163 aacccgtct ctattaaaaa cacaaaaatt aaccgggtgt ggtggtgcat gcctgtaatc 3660
165 aatcccagct acttgggaat ttgaggcatg agaattgctt gaacctggaa gtggaggttg 3720
167 cagtgcagag agatcatgtc agtgcatttt aacctgggtg acagagttag actccatgtc 3780
169 caaaaaaaag aaaaaaaaaa aaagtccact tggaaaccagt ttttaaaaat gtgattcatt 3840

```

## RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/09/765,061F

TIME: 10:46:14

Input Set : A:\USSN09765061.txt

Output Set: N:\CRF4\07122005\I765061F.raw

171	ttcattgtgg	aggcatttta	tccacttcca	ctttcatttt	caggagtgtg	agattataac	3900
173	cgctctcttg	gttcctgtgg	tttgtgggtt	cagacttggt	tctctngtgg	cgggagagggc	3960
175	tgcatggaac	tccccacatc	ctcccaacca	ggagccccag	agtgattggc	agcgcgtgtt	4020
177	tgtggattgg	tgagagaggg	ttagggccag	ggtcaaggtc	aggtcaggac	tcagcttatg	4080
179	gccaagactg	aggctcagcc	tgagagctat	gtgggtgaat	aaaataaaaat	aagaactgtg	4140
181	tcaaccaagg	gccctttaca	ggcttgctgt	cacagttgtg	tggctgtgtc	actgcacaag	4200
183	gtgcaccggc	atctcctcca	agggtctcat	tatagacatt	gtatattggg	atttccataa	4260
185	tgagaagtgt	ccagcagatg	gcaatagtgt	attgttctaa	caaaacgagt	attcgtgaca	4320
187	atcttctgaa	tattagaagt	gaagtgtctt	gatgaacggg	caccttttcc	tagtttgac	4380
189	aaagacattg	atttagggca	gggttttcgg	cgttggtgct	tctttccctt	gtctgtatgc	4440
191	acttgaccag	caagcatgac	ttcagggaga	tgtgccacag	ggctctgttt	ttcgggtctc	4500
193	tgatgggggtg	caggccccctg	gggtccctgc	ctcactgacc	tgcagctctg	gggccagggtt	4560
195	gatgccccga	gtgattacca	gagggagacc	tggaaacctga	gcaatcatga	gaagatgaag	4620
197	gcggtgcccc	tcctccacgg	agagggaaat	cggctcttca	agctgggccg	ctacgaggag	4680
199	gcctcttcca	agtaccagga	ggccatcatc	tgcctaagga	acctgcagac	caaggtcaga	4740
201	ggccgctggc	caggggtggg	aagtggcgct	gactctgggg	ggcctgcca	gtgccggcca	4800
203	gggtggggcg	ggggttgggc	agctgcctga	ggtcatggct	gaccttctcc	ctgggcagga	4860
205	gaagccatgg	gaggtgcagt	ggctgaagct	ggagaagatg	atcaatactc	tgatcctcaa	4920
207	ctactgccag	tgcctgtgta	agaaggagga	gtactatgag	gtgctggagc	acaccagtga	4980
209	tattctccgg	caccacccag	gtgcgcgggg	ctgcaggggc	ggacagtgag	ggggcgccca	5040
211	gcccagggcc	acggagacac	ctgccatagc	cttctctggc	ttttctttcc	accccaccag	5100
213	ggcaccaaac	cttgtctcca	cccagccggg	tttccccgag	tgtgtaactg	aattgtgggt	5160
215	gatgatggg	cagtgccttg	cgcgggcg	cctttatttt	aatgtgtgtt	tgaacactta	5220
217	cccaggaagc	tcgccaagct	tgtgatttca	gcggaacggg	aaacaggcgt	ttaaaaagag	5280
219	gggcaatcaa	tataggga	aatattatga	tgtcgggtact	agtactgggt	ttgcgaggat	5340
221	atggcaccgc	agtactagat	tgacttaatg	ctcgaatcgt	gctcacagta	aaaacatcca	5400
223	gcccctggct	catgcatcag	gcacacgtcg	tctgcgttta	ttatctcatt	taatcctcat	5460
225	aatcctcata	atcaccatat	gagggaggtg	cagggaaagg	ggcctgaagg	ttatctaatt	5520
227	taggtagcgt	ctataagaaa	aataaaacaa	agttatgaat	ataaaattac	tcacagggcc	5580
229	ttaaaaagga	gaggaggagg	tactgctatt	atgatcatca	tctccatctt	acagttgagg	5640
231	aaaccgaggg	atgggggata	cagagaggtt	aaggatcatg	gcggggctga	gggtcttgga	5700
233	ggctggtgag	tcccagctgg	gctggggctg	cctctgaggc	tgggaaggga	gctgtagctg	5760
235	gatgctccct	gctccccaca	ggcatcgtga	aggcctacta	cgtgcgtgcc	cgggctcacg	5820
237	cagaggtgtg	gaatgaggcc	gaggccaagg	cggacctcca	gaaagtgtgt	gagctggagc	5880
239	cgtccatgca	gaaggcgggtg	cgcagggagc	ttgaggctgc	tggagaaccg	catggcggag	5940
241	aacaggagga	ggagcggctg	cgctgccgga	acatgctgag	ccaggggtgcc	acgcagcctc	6000
243	ccgcagagcc	acccacagag	ccaccgcac	agtcatccac	agagccacct	gcagagccac	6060
245	ccacagcacc	atctgcagag	ctgtccgcag	ggccccctgc	agagccagcc	acagagccac	6120
247	ccccgtcccc	agggcactcg	ctgcagcact	gagccccctg	aggccacag	ccaccaggc	6180
249	agggagcaag	tggcctgggtc	acttctgggt	cgattgacca	ggatcgtggt	gtcacttttt	6240
251	aaaatttaaa	attaattttt	gaaatcaaa	tcagacacac	ccatggtaaa	aaaaaaaaaa	6300
253	aaaacaatcc	caagggtaca	gaagagctta	tgaataaaa	tagttttctc	ctctaccctt	6360
255	ctcattcctt	ccgtgccatg	gttttaattg	accctgtttt	taattcttct	ggtagttttc	6420
257	tctatttcca	agtaatctgt	ttaaatacgt	ttctagattt	taccccatgt	caatgacaaa	6480
259	tgaggatttg	atgctctgat	cctttctcat	gcctgatacc	cctccctgtc	tccccatttt	6540
261	ggatagttac	atgtgggggt	catctcgggtg	atttttgtaa	ctttacgcag	gacacttaga	6600
263	gctctctaga	atcccactga	cttttagtggg	gtcttgatgt	aggggtgggca	agccccgaca	6660
265	ctggagctta	gcctgagagg	ggttcttgc				6689
268	<210> SEQ ID NO: 2						

## RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/09/765,061F

TIME: 10:46:14

Input Set : A:\USSN09765061.txt

Output Set: N:\CRF4\07122005\I765061F.raw

269 <211> LENGTH: 1119  
 270 <212> TYPE: DNA  
 271 <213> ORGANISM: Papio anubis  
 274 <220> FEATURE:  
 275 <221> NAME/KEY: gene  
 276 <222> LOCATION: (1)..(1119)  
 277 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor  
 interacting

278 protein-like 1  
 280 <400> SEQUENCE: 2  
 281 atggatgccg ctctgctcct gaacgtggaa ggggtcaaga aaaccattct gcacggaggc 60  
 283 acgggcgagc tcccaaactt catcaccgga tcccagtgga tctttcattt ccgcaccatg 120  
 285 aaatgtgatg aggagcgcac ggtcatcgac gacagccggc aggtggacca gcccattgcac 180  
 287 atcatcatcg ggaacatgtt caagctcgag gtctgggaga tcttgctcac ctccatgagg 240  
 289 gtgcacgagg tggccgagtt ctggtgacac accatccaca cgggggtcta ccccatcctg 300  
 291 tcccggagcc tgcggcagat ggcccagggc aaggaccca cggagtggca cgtgcacaca 360  
 293 tgcgggctgg ccaacatgtt cgcctaccac aactgggct acgaggacct ggacgagctg 420  
 295 cagaaggagc ctacgcctct gatctttgtg atcgagctgc tgcaggttga cgccccgagt 480  
 297 gattaccaga gggagacctg gaacctgagc aatcatgaga agatgaaggc ggtgcccgtc 540  
 299 ctccacggag agggaaatcg gctcttcaag ctgggcccgt acgaggaggc ctcttccaag 600  
 301 taccaggagg ccatcatctg cctaaggaac ctgcagacca aggagaagcc atgggaggtg 660  
 303 cagtggctga agctggagaa gatgatcaac accctgacct tcaactactg ccagtgcctg 720  
 305 ctgaagaagg aggagtatta cgaggtgctg gagcacacca gtgacattct ccggcaccac 780  
 307 ccaggcatcg tgaaggccta ctatgtcgt gcccgggctc acgcagaggt gtggaatgag 840  
 309 gccgaggcca agcgggacct ccagaaagtg ctggagctgg agccatccat gcagaaggcg 900  
 311 gtgcgcaggg agctgaggct gctggagaac cgtatggcag agaagcagga ggaggagcgg 960  
 313 ctgcgctgcc ggaacatgct gagccaggga gccacgcagc ctcccacaga gccaccggca 1020  
 315 gagccccaca cagcaccacc tgcggagctg tccacagggc cacctgcaga gccaccggca 1080  
 317 gagctcccc tgtccccagg gcaactcact cagcactga 1119

320 <210> SEQ ID NO: 3  
 321 <211> LENGTH: 1155  
 322 <212> TYPE: DNA  
 323 <213> ORGANISM: Pan troglodytes  
 326 <220> FEATURE:  
 327 <221> NAME/KEY: gene  
 328 <222> LOCATION: (1)..(1155)  
 329 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor  
 interacting

330 protein-like 1  
 332 <400> SEQUENCE: 3  
 333 atggatgccg ctctgctcct gaacgtggaa ggggtcaaga aaaccattct gcacgggggc 60  
 335 acgggcgagc tcccaaactt catcaccgga tcccagtgga tctttcattt ccgcaccatg 120  
 337 aaatgtgatg aggagcggac agtcattgac gacagccggc aggtgggcca gcccattgcac 180  
 339 atcatcatcg gaaacatgtt caagctcgag gtctgggaga tcttgcttac ctccatgcgg 240  
 341 gtgcacgagg tggccgagtt ctggtgacac accatccaca caggggtcta ccccatcctg 300  
 343 tcccggagcc tgaggcagat ggcccagggc aaggaccca cagagtggca cgtgcacaca 360  
 345 tgcgggctgg ccaacatgtt cgcctaccac acgctgggct acgaggacct ggacgagctg 420  
 347 cagaaggagc ctacgcctct ggtctttgtg atcgagctgc tgcaggttga tgccccgagt 480  
 349 gattaccaga gggagacctg gaacctgagc aatcatgaga agatgaaggc ggtgcccgtc 540  
 351 ctccacggcg agggaaatcg gctcttcaag ctgggacgct acgaggaggc ctcttccaag 600  
 353 taccaggagg ccatcatctg cctaaggaac ctgcagacca aggagaagcc gtgggaggtg 660

## RAW SEQUENCE LISTING

DATE: 07/12/2005

PATENT APPLICATION: US/09/765,061F

TIME: 10:46:14

Input Set : A:\USSN09765061.txt

Output Set: N:\CRF4\07122005\I765061F.raw

```

355 cagtggctga agctggagaa gatgatcaat actctgatcc tcaactactg ccagtgcctg 720
357 ctgaagaagg aggagtacta tgagggtgctg gagcacacca gcgacattct ccggcaccac 780
359 ccaggcatcg tgaaggccta ctacgtgcgt gcccgggctc acgcagaggt gtggaatgag 840
361 gccgaggcca aggagacct ccggaagtgt ctggagctgg agccgtccat gcagaaggcg 900
363 gtgcgcaggg agctgaggct gctggagaac cgcagtgagg agaagcagga ggaggagcgg 960
365 ctgcgctgcc ggaacatgct gagccagggt gccacgcagc ctccggcaga gccaccaca 1020
367 gagccacccg cacagtcac cagagagcca cctgcagagc caccgccagc accatctgca 1080
369 gagctgtccg cagggccacc tgcaagagaca gccacagagc caccgccgtc ccaggggcac 1140
371 tcgctgcagc actga 1155
374 <210> SEQ ID NO: 4
375 <211> LENGTH: 1060
376 <212> TYPE: DNA
377 <213> ORGANISM: Bos taurus
380 <220> FEATURE:
381 <221> NAME/KEY: gene
382 <222> LOCATION: (1)..(1060)
383 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor
interacting
384 protein-like 1
386 <400> SEQUENCE: 4
387 atggatgcc a ctctgctcct gaatgtggaa gggatcaaga aaaccattct gcatggggggc 60
389 acaggggacc tccccaaactt cattactgga gcccgagtga cctttcattt ccgaaccatg 120
391 aaatgtgatg aggagcgagc ggtgatagac gacagcaagc aggtgggcca tcccatgcac 180
393 atcatcattg ggaacatggt caagctggag gtctgggaga tcttgctgac gtccatgcgg 240
395 gtcagcgagg tggccgagtt ttggtgcgac accatccaca cagggggtcta ccccatcctg 300
397 tcccgagacc tgcggcagat ggcgagggtt aaggacccca cagagtggca cgtgcacacg 360
399 tgtggcttgg ccaacatggt cgcttaccac acgctgggct acgaggacct ggacgagctg 420
401 cagaaggagc ctccagccact gatcttcata atcgagttgc tgcaggtcga ggccccgagc 480
403 cagtaccaga gggagacctg gaacctgaat aaccaggaga agatgcaggc ggtgcccatc 540
405 ctccatggag aaggaaaccg gctcttcaag ctggggccgt acgaggaggc ctccaacaag 600
407 taccaggaag ccatcgtctg cctgaggaac ctgcagacca aggagaaacc ctgggaggtg 660
409 cagtggctga agctggagaa gatgatcaac accctgatcc tgaactactg tcagtgtctg 720
411 ctgaagaagg aggagtacta cgagggtgctg gaacacacta gtgacatcct ccggcatcac 780
413 ccaggcatcg tgaaggccta ctatgtgagg gcccgggctc acgccgaggt gtggaatgag 840
415 gcggaagcca aggcgatctt ggagaaagtgt ctggagctgg agccgtccat gcggaaggcg 900
417 gtgcagaggg agctgaggct gctggagaac cggctggagg agaaacgcga ggaggagcga 960
419 ctgcgctgcc ggaacatgct gggctagtgc gcaggcgcca agcctcctgc ctccgcccc 1020
421 cgycctcca cccccccaa aaaaaaaaaa aaaaattttt 1060
424 <210> SEQ ID NO: 5
425 <211> LENGTH: 925
426 <212> TYPE: DNA
427 <213> ORGANISM: Canis familiaris
430 <220> FEATURE:
431 <221> NAME/KEY: gene
432 <222> LOCATION: (1)..(925)
433 <223> OTHER INFORMATION: The AIPL1 gene produces the aryl-hydrocarbon receptor
interacting
434 protein-like 1
436 <400> SEQUENCE: 5
437 tgtacggggg caccggcgag ctcccaaact tcctcacggg gtcccgggtc atctttcact 60
439 tccgcacaac gaaatgcgac gaggcgcgga cagtgatcga cgacagcaag cgtgtggggc 120

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/765,061F

DATE: 07/12/2005  
TIME: 10:46:15

Input Set : A:\USSN09765061.txt  
Output Set: N:\CRF4\07122005\I765061F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906~~, 3946

Seq#:52; Xaa Pos. 1

Seq#:72; Xaa Pos. 322



**VERIFICATION SUMMARY**

DATE: 07/12/2005

PATENT APPLICATION: US/09/765,061F

TIME: 10:46:15

Input Set : A:\USSN09765061.txt

Output Set: N:\CRF4\07122005\I765061F.raw

L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1860

M:341 Repeated in SeqNo=1

L:1128 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:42

L:1143 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:43

L:1158 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:44

L:1182 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:46

L:1197 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:47

L:1212 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:48

L:1227 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:49

L:1285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:35

L:1422 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:60

L:1437 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:61

L:1452 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:62

L:1467 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:63

L:1482 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:64

L:1497 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:65

L:1512 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:66

L:1527 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:67

L:1542 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:68

L:1557 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:69

L:1572 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:70

L:1587 M:257 W: Feature value mis-spelled or invalid, &lt;221&gt; Name/Key for SEQ ID#:71

L:1688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:320